

**P-3A/B TACNAVMOD OPERATIONAL FLIGHT TRAINER, DEVICE 2F142 (F)****TRAINING CATEGORY:**

AVIATION (FLIGHT)

**ORIGINATING AGENCY:**

DCNO/AIR

**SECURITY CLASSIFICATION:**

Device 2F142 (F) is unclassified.

**PURPOSE OF DEVICE:**

To provide function and equipment necessary to train pilots, copilots, and flight engineers in the familiarization of normal and emergency operational procedures of the P-3A/B aircraft.

**INTENDED USE:**

In reserve Naval Air Stations for training of pilots, copilots, and flight engineers.

**FUNCTIONAL DESCRIPTION:**

Device 2F142 (F) provides for control and monitoring of the training mission via interactive graphics displays and pop-up menus. Trainer peripherals and subsystems are coordinated and controlled by the real-time computer program. An off-line Maintenance Mode provides Daily Readiness and Verification testing, and exercise formulation.

The Computational System consists of a Harris Model H-1200 single processor, super mini-computer and its peripherals:

474 MB Fixed Disk; Magnetic Tape Unit  
300 MB Disk Drive Unit, and Operator Console

**PHYSICAL INFORMATION:**

**WEIGHT:** Total System (including cables)  
14,900 pounds

**HEAT DISSIPATION:** Total System (including Personnel) 78,170 BTU/HR.

## DIRECTORY OF NAVAL TRAINING DEVICES

## POWER REQUIREMENTS:

120/208 VAC, 60 Hz, 3 Phase, 90% PF, 150  
amps, 31.4 KVA

## INSTALLATION REQUIREMENTS:

MINIMUM INSTALLATION AREA: 810 sq. ft.

FLOOR LOADING: 168 maximum

DECK REQUIREMENT: 12" Elevated Deck  
per MIL-F-29046

## OPERATIONAL EQUIPMENT:

AIMS Control Panel, C-6280 ( ) (P)/APX; IFF  
BAT PWR/ZERO Mode Command and Test  
Switch; Marker Plotter Controller, C-9855/ASN-  
124 (non-functional); Pilot Tactical Display, AN/  
ASA-66 (non-functional); Pilot Tactical Display  
Control Panel (non-functional).

## PUBLICATIONS FURNISHED:

1. Technical Manual, Operation and Maintenance Instructions, P-3A/B TACNAVMOD Operational Flight Trainer, Device 2F142 (F), NTSC P-5874 (U)
2. Instructor's Utilization Handbook, P-3A/B TACNAVMOD Operational Flight Trainer, Device 2F142 (F), NTSC P-5877 (U)
3. Commercial Computer Documentation Set for the P-3A/B TACNAVMOD Operational Flight Trainer, Device 2F142 (F), NTSC-P-5876 (Set) (U)
4. Commercial Off-the-Shelf Equipment Documentation Set for the P-3A/B TACNAVMOD Operational Flight Trainer, Device 2F142 (F), NTSC P-5874-S (Set) (U)

## PERSONNEL:

INSTRUCTORS: One (1) Flight Instructor,  
One (1) Flight Engineer  
Instructor. Both qualified in  
P-3A/B aircraft.

OPERATOR: Instructor-operated

TRAINEES: Class of up to three (3). Pilot,  
Copilot, and Flight Engineer.

MAINTENANCE: One journeyman level elec-  
tronics technician, 40 hours  
per week.

## CONTRACT IDENTIFICATION:

Manufactured by Quintron Corp., Chantilly,  
VA under NAVTRASYSCEN Contract No. N61339-  
87-C-0086.

## LOCAL STOCK NUMBER:

6930-LL-C00-7045